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Record

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 17 No. 24 March 25, 1993



Virginia Muzquiz, a graduate Spanish major from Deerfield, Mass., teaches how to do la Bamba during Foreign Language Week, March 15-19. The week featured everything from "Jeopardy" in Spanish to a French play to German TV commercials. This year about 25 area high schools were invited to attend.

'April Welcome'

Expanded student recruitment program involves entire campus

April is always the most popular month for prospective students to visit the campus, but University officials are hoping an expanded recruitment program draws a record-number of high school seniors and juniors this year. Called "April Welcome," the program is packed with incentives designed to make a visit to the campus easy, personal and informative.

Harold Wingood, dean of undergraduate admission, said getting prospective students to visit the campus is an important part of the recruitment process. "We know that when a student visits a campus, he or she is much more likely to attend that school than the student who doesn't visit," he said. "We don't want students to go elsewhere because they haven't given us a chance."

Some of the improvements for this year's program include:

- Expanding the traditional visiting period for prospective students from one weekend in April to the entire month.
- Securing low airfare to St. Louis for visiting students.
- Creating personalized itineraries.

Each student will receive a schedule for the visit that is tailored to his or her interests, including visits to lectures and student organizations.

- Arranging for prospective students to spend the night in a residence hall, so they'll get a realistic idea of where they might live.

"April Welcome" is open only to students who have been admitted to Washington University. Most of those students, said Wingood, also have been admitted to four or five other schools. A visit to the campus, he says, can help secure Washington as the top choice for many of these students.

Jane Schoenfeld, associate dean of admission, said visiting the campus is beneficial to students as well.

"It's the best way for students to find out if they make a good match with the school," she said.

Wingood said he hopes the expanded program will bring about 800 prospective student visitors; a considerable increase over the 250 to 350 students who usually visit.

Another improvement will be that the entire campus will have a chance to get involved in the recruitment process. Each prospective student will have the opportunity to visit several departments. Wingood pointed out that recruiting students is a campus-wide function that the admissions office facilitates.

"We're confident prospective students will feel good about Washington once they've visited the campus and met with faculty, staff and administrators," Schoenfeld said.

"Attracting talented students to Washington University is essential to our success," said Provost Edward S. Macias, Ph.D. "I hope the entire campus will extend a warm welcome to our visitors."

It won't be hard to spot prospective students when they visit next month. You might see them fumbling with maps, trying to figure out where Busch Hall ends and January Hall begins.

So, what can the campus do to help make next month's visitors next year's students?

"Be yourselves," said Wingood. "And help them have the nicest visit possible."

Economist Julianne Malveaux discusses civil rights during King symposium

Economist Julianne Malveaux will deliver the keynote address for the 23rd annual Martin Luther King Jr. Symposium to be held at Washington University March 28-April 4. All events are free and open to the public, unless otherwise noted.

Malveaux's talk, part of the Assembly Series, is titled "The Parity Imperative: Civil Rights, Economics, Justice and a New America." She will speak at 11 a.m. Wednesday, March 31, in Graham Chapel. Immediately following Malveaux's talk, a reception in her honor will be held in the Women's Building lounge.

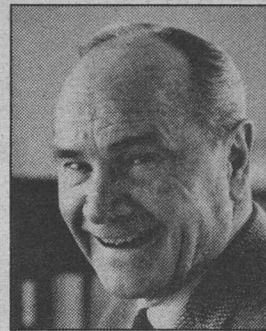
The Martin Luther King Jr. Symposium, which marks the anniversary of King's assassination on April 4, 1968, focuses on the political, economic and cultural concerns of black students at Washington. This year's theme is "If Not Now, When?"

"The theme we felt was appropriate because many of the hopes and dreams of Dr. King and the other leaders of the civil

Natural sciences building named after McDonnell

Washington University will name its new natural sciences building James S. McDonnell Hall "in appreciation of James S. McDonnell's commitment and generous support to Washington University," Chancellor William H. Danforth announced. Ceremonies to name the building are being held April 15 on the Hilltop Campus.

The late McDonnell, who was founder and chief executive officer of the McDonnell Douglas Corp., is being recognized for his "wisdom, foresight and leadership." He served as chairman of the University's Board of Trustees and chairman of the Washington University Medical Center.



James S. McDonnell

"Mr. Mac," as he was affectionately known to friends and business associates, provided support for higher education throughout the nation. "He was one of the great visionary leaders of this century with enormous dedication and concern for the welfare of humankind," Danforth said.

According to Danforth, McDonnell established at Washington University the McDonnell Center for the Space Sciences, the McDonnell Department of Genetics, and the McDonnell Center For Higher Brain Function. The McDonnell Medical Sciences Building also is named in his honor. James S. McDonnell, the McDonnell Douglas Corp., the James S. McDonnell Foundation and members of the McDonnell family have supported these and other activities at the University.

The James S. McDonnell Hall provides laboratory and office space for the University's departments of biology and earth and planetary sciences. McDonnell Hall also includes general purpose classrooms and a lecture hall that will serve students from all areas of the University. The 104,000-square foot, five-story building is located south and slightly east of Wilson Hall.

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In This Issue...

Genetic discovery: Researchers identify gene mutations that cause a subform of adult-onset diabetes *Page 2*

Tracing a path: Philip Stahl, Ph.D., leads cellular research fundamental to targeting disease treatment *Page 3*

From the provost: Edward S. Macias, Ph.D., gives his views on undergraduate teaching at Washington University *Page 6*

rights movement have yet to be fulfilled," said junior Kelli P. Washington. She and Janeen L. Nelson co-chair the programming committee for the Association of Black Students (ABS), the event's major sponsor. "As the future of the black community and of this nation, we have a responsibility to remember these hopes and dreams and make sure they are fulfilled and remembered by all people. If we do not do what we are obligated to do as members of this community now, who will do it and when?"

Malveaux, who holds a doctorate in economics from the Massachusetts Institute of Technology, is a visiting faculty member in the African American Studies Department at the University of California, Berkeley. Her sociopolitical commentary appears through the King Features Syndicate. She is a weekly columnist for the San Francisco Sun Reporter and a contributing writer for Essence magazine, among other publications.

Continued on page 8

Medical Update

Genetic study defines cause of adult-onset diabetes subtype

Researchers have identified 16 gene mutations responsible for causing a subform of adult-onset diabetes. The study, conducted at the School of Medicine and two other institutions, provides the most complete explanation to date of the cause of any form of diabetes and is the most thorough investigation of any gene's role in the disease.

These findings, which recently were reported in the *New England Journal of Medicine*, laid the groundwork for a just-published study in which 16 mutations in the same gene were found to yield at least 23 types of abnormal glucokinase enzymes. Those results appeared in the March 1, 1993, issue of the *Proceedings of the National Academy of Sciences*.

"For the first time we clearly know the cause of diabetes in a subset of these patients," said Alan Permutt, M.D., professor of medicine at Washington University. Permutt's laboratory conducted the study

with collaborators from the University of Chicago and the Centre d'Etude Polymorphisme Humain in Paris. Genetic discoveries such as these may eventually lead to gene therapies and to genetic tests that predict diabetes in non-symptomatic people, he added.

The researchers looked for mutations in the gene for glucokinase, an enzyme thought to be critical for stimulating pancreatic insulin secretion. A few mutations in this gene have been reported in past studies, Permutt explained, but were found in only four families. This study looked at a large group of diabetic families to find a more definitive explanation of the role glucokinase mutations play in the development of adult-onset diabetes, also called Type II diabetes.

Using DNA isolated from blood cells, the investigators studied 53 French families — 21 with Type II diabetes and 32 with a Type II subform called maturity-onset

diabetes of the young (MODY). Type II diabetes is the most common form of the disease and affects about 12.5 million Americans. It normally appears in middle age and is characterized by the inability to produce enough insulin or to respond properly to insulin. MODY is a subform in which symptoms appear before age 25. It accounts for about 5 percent of Type II cases.

They found 16 mutations in 18 (56 percent) of the MODY families and no mutations in any of the other families. In addition, they found that patients with glucokinase mutations were diagnosed earlier in childhood and were more mildly affected than MODY patients with normal glucokinase genes. Their findings imply that — at least in this study population — the glucokinase gene is the primary cause of MODY and probably does not play an important role in causing non-MODY cases of Type II diabetes.

The study builds on past collaborations among the same three research groups. In 1992, Permutt's laboratory, together with Washington University's Helen Donis-Keller, Ph.D., professor of genetics and surgery, isolated the human glucokinase gene and found that it sat on chromosome 7. They published the finding in February 1992.

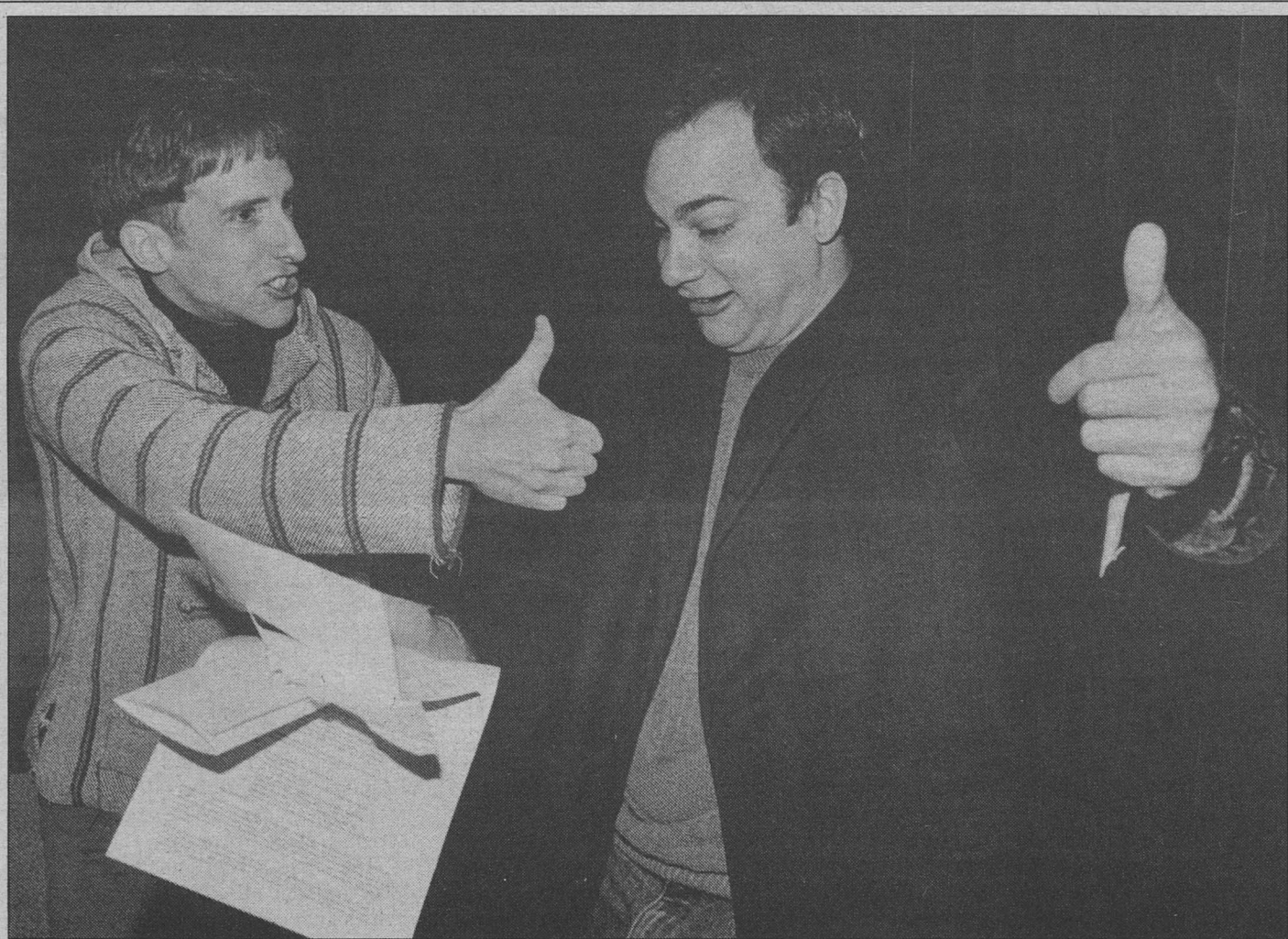
In March 1992, Permutt and the French team reported finding a linkage in 16 French families between the glucokinase gene and MODY. Linkage means that a certain form of the gene appeared in the MODY subjects more often than one would expect if that form were passed on randomly, with no association to the disease. Linkage is a strong signal that mutations in a gene are likely.

A follow-up study by the French team and Graeme Bell, Ph.D., of the University of Chicago, found the first mutation on the glucokinase gene in MODY patients of one French family. They published the finding in April 1992. It was the first evidence that mutation of a gene involved in glucose metabolism is responsible for Type II diabetes. That mutation and the two or three reported since then are among the 16 described in the current study, Permutt said.

Although it is likely that similar mutations will be found in other racial and ethnic groups, additional studies will be needed to clarify the glucokinase gene's role outside of this study population, Permutt cautions. He is currently studying the glucokinase gene in African Americans and Mauritian Creoles. In addition to glucokinase mutations, genetic studies have linked MODY diabetes to an unknown gene on chromosome 20, Permutt said.

There are many unanswered questions about the genetic basis of Type II diabetes, Permutt said. The American Diabetes Association has recently sponsored a study to recruit families with two or more diabetic members. These studies promise to yield many more answers in the next few years. Families who want to participate may call the coordinator for genetic study at 454-2720.

— Juli Leistner



Medical student Seth Myles, left, shows his approval as Jay Salpekar sees his Match Day results. Myles will spend his residency at Barnes Hospital in obstetrics and gynecology. Salpekar will spend his residency at Barnes in psychiatry.

NIH grants \$2 million for studies on mechanisms of anesthetics

Three teams of School of Medicine investigators will share a program project grant to study the mechanisms by which general anesthetics produce their effects. The grant is one of two program project grants awarded by the National Institutes of Health to investigate the cellular and molecular mechanisms by which anesthetics work. The grant totals more than \$2 million over five years with a first-year award of \$585,000.

Alex S. Evers, M.D., acting head of anesthesiology at Washington University, says the grant is recognition for the department's groundbreaking research. "Our efforts to understand the mechanisms of anesthetic action lead the international effort to solve one of pharmacology's great mysteries," Evers says.

Although the effectiveness of various anesthetics is well documented, there is not agreement on why and how this class of drugs is able to cause patients to lose consciousness. The program director for the five-year grant is Joseph H. Steinbach, Ph.D., professor of anesthesiology and anatomy and neurobiology. He is also the principal investigator of one project to study the ways in which anesthetics increase inhibition in individual brain cells.

"There are influences that are excitatory and increase activity, and there are other influences in the cells that are inhibitory

and decrease activity," Steinbach explains. "We will be studying two different kinds of receptors in specific brain cells to see what it is that anesthetics actually do at the cellular and molecular level at clinically relevant doses."

Steinbach says anesthetics can work by either decreasing excitation of nerve cells or by increasing inhibition of those neurons. The goal of the current research is to determine whether anesthetics influence cellular channels to shut down the excitatory response of cells or whether they interact with what are called GABA receptors to increase inhibition of cellular responses.

"If you decrease excitation or increase inhibition, you still get a net shift in the balance toward inhibition. Based on the limited literature now available, it's clear that anesthetics could actually act on both types of receptors, and they may have other effects as well," Steinbach says.

The second project is an investigation of a type of anesthetic drug that is chemically larger than the common gaseous anesthetics used in surgery. The structures of these drugs will be specifically modified to learn more about the parts of molecules involved in producing anesthetic effects such as loss of consciousness. Douglas F. Covey, Ph.D., professor of molecular biology and pharmacology is principal investigator. Charles

F. Zorumski, M.D., associate professor of psychiatry and anatomy and neurobiology is a co-investigator.

The third project is a study of the effects of anesthetics on calcium channels in neurons. Christopher J. Lingle, Ph.D., associate professor of anesthesiology and anatomy and neurobiology, is principal investigator. The activation of calcium channels is required for transmission of information between nerve cells, but because some anesthetics block calcium channels a breakdown in communication between neurons occurs resulting in a loss of consciousness. Lingle will study the ways in which anesthetics inhibit calcium channels in specific types of nerve cells.

"The point of all three projects is to try to figure out what's going on," Steinbach says. "The available data indicate that some anesthetics enhance inhibition and that some block calcium channels. However, there have been no studies that have determined which effects are found at clinically used concentrations. The goals of the program project are to clarify the molecular mechanisms by which anesthetics act and to determine whether one cellular or molecular action is clinically more relevant than another. In addition to increasing our understanding of the drugs in current use, the results could perhaps lead to the design of new approaches for producing anesthesia."

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Cellular sleuth deciphers body's chemical codes

As our bodies' cells go about their daily tasks — destroying invading organisms, releasing hormones, churning out proteins, pulling nutrients from the blood and a host of other vital jobs — they constantly shuttle materials of all sorts and sizes into the cell, out of the cell, and among their many specialized internal compartments. An intricate system of chemical signals directs this traffic with stunning efficiency.

After two decades of cellular sleuthing, Philip Stahl, Ph.D., Edward Mallinckrodt Jr. professor and head of the Department of Cell Biology and Physiology, has deciphered many of these chemical codes. Focusing on selected pieces of the cell trafficking puzzle, he and his laboratory colleagues have identified some of the key players that control traffic at the cell surface and deep in its interior. He and a growing number of researchers all over the world are gradually assembling the complete picture of trafficking throughout the cell. Their work promises to lend a greater understanding of the diseases that result when this system goes awry.

Stahl's interest in biomedicine began in college. Stahl, who is from a large family, attended the local state teacher's college, West Liberty State College, in his native West Virginia. It was the most affordable option because he could live at home. "It was there that I had an inspiring teacher and got very excited about biology and chemistry," Stahl says. In 1964, the institution awarded him his undergraduate degree and a fellowship to attend West Virginia University, where he completed a doctorate in pharmacology.

He then spent a few months at the University of Missouri's nuclear research reactor in Columbia to develop an experiment about calcium metabolism in bone. The goal: to launch the experiment on a NASA biosatellite. Although the project never got off the ground, it did have a significant impact on his personal life; he met his wife at the reactor library, where she was a work-study student. Sharon Stahl is currently an assistant dean in Washington University's College of Arts and Sciences.

From Columbia, Stahl went to Vanderbilt University as a postdoctoral fellow. During a visit to Vanderbilt, Carlton C. Hunt, M.D., then the head of Washington University's physiology department, invited Stahl to visit St. Louis. Stahl joined the faculty as an assistant professor in January 1971.

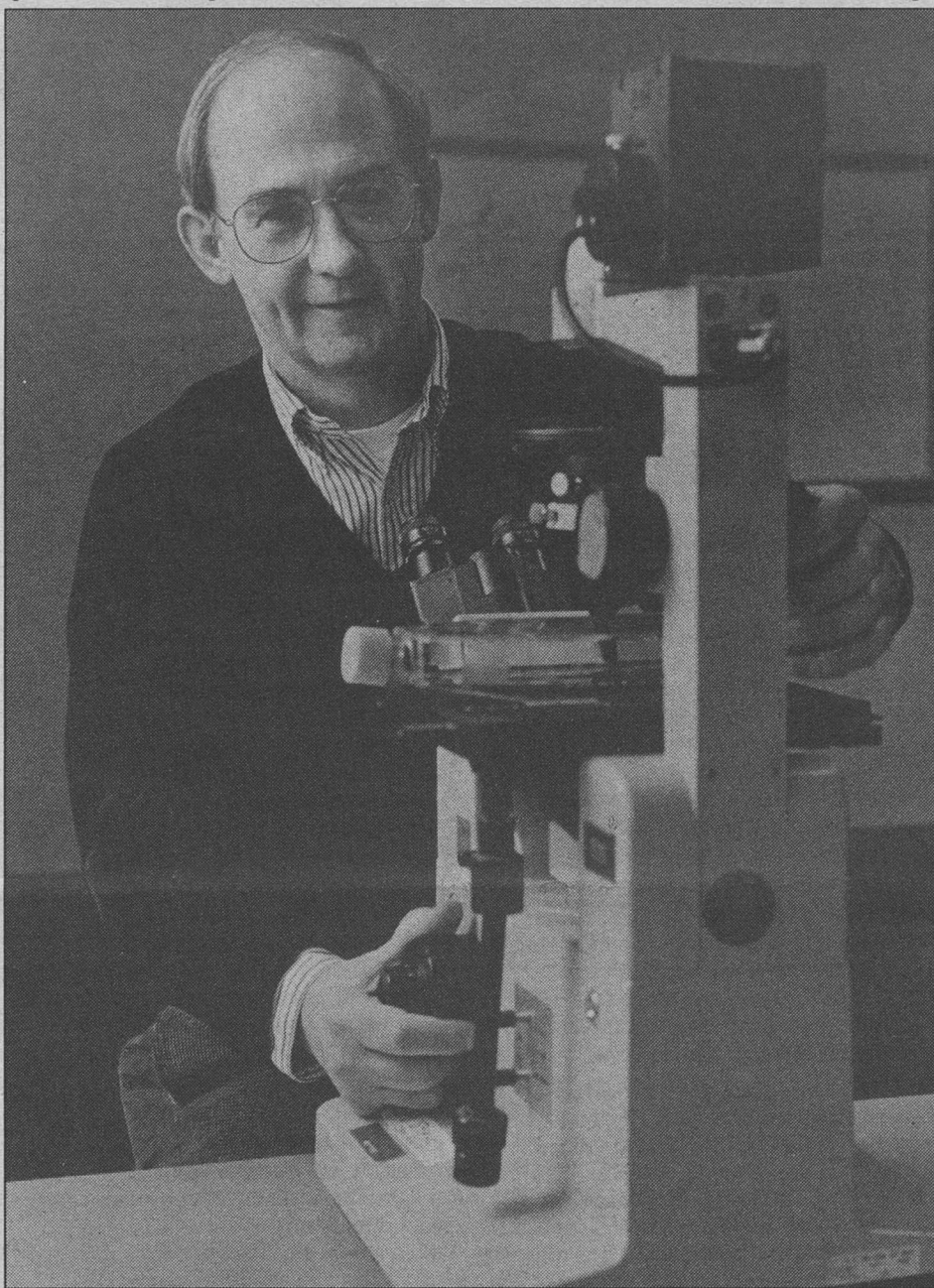
He began studying lysosomal enzymes, proteins that digest cell waste, with the goal of understanding how they entered cells. The work led to his discovery of a protein called the mannose receptor in 1976. Receptors are a family of specialized proteins that sit on the cell surface and direct endocytosis, the process cells use to bring in materials such as hormones, nutrients and invading organisms. Receptors are designed to recognize and grab specific molecules — in this case, mannose sugars — from the cell's immediate surroundings. This binding triggers the cell membrane to invaginate and surround the receptor and its target, called the ligand. The membrane forms a sac called a vesicle, which buds off into the cell's interior.

Over the next several years, Stahl used the mannose receptor as a model to better understand the role receptors play in endocytosis. Specifically, he looked at mannose receptors on macrophages, cells known to be highly endocytic and to play a role in inflammation and immune defense. He developed an interest in macrophages during a year he spent studying them as a Senior International Fogarty Fellow at Oxford University in 1980. Among the interesting questions: How does the receptor recognize its ligand? What causes the membrane to respond, and how does the cell know what to do with the ligand?

Stahl's lab focused on tracing the path mannose receptors travel in the cell. They found that once the receptor-ligand complex enters the cell, it is ferried to an acidic spot in the cell where the receptor dumps its cargo and then returns to its post on the cell's surface. The recycling occurs about every five or 10 minutes — several hundred times during the receptor's three-day life span, Stahl says.

Studies in his lab and others are now uncovering the mannose receptor's functions. It protects the cell by grabbing potentially damaging lysosomal enzymes from the cell's surroundings and sending them inside to be destroyed. The receptor also plays a role in host defense because it can bring in invading organisms. "We haven't figured out whether the same receptor mediates both functions or whether it is modified in some way so that it becomes more effective at performing one function over the other," Stahl says.

Two years ago, Stahl and collaborators at Columbia University and Harvard found the receptor's structure, information that should lead to more answers, Stahl says. "We have some ideas about how the receptor binds its ligand and how it transmits that information to the cell to allow for internalization and recycling. This information is encoded into the receptor's structure." Stahl has received a MERIT award from the National Institutes of Health to continue this work; currently, he is studying how the receptor is formed.



"We are trying to be innovative in terms of the kinds of methods we use for teaching so that students are enthusiastic about what they learn."

His research on the mannose receptor has led to an effective treatment for Gaucher disease, a disorder in which the lack of a specific enzyme prevents macrophages from digesting worn-out cells. As a result, enlarged, dysfunctional macrophages accumulate in organs such as the spleen and liver and cause damage. Initial efforts to treat the disease by injecting patients with the natural enzyme were unsuccessful; most of the dose did not reach the macrophages. Now a commercial manufacturer has created a synthetic version of the enzyme that has mannose sugars added to its surface. Although the enzyme is extremely expensive to produce, it is effective. "When they inject this synthetic enzyme into patients, it is targeted directly to the mannose receptor on macrophages and provides a very effective treatment. That is one nice outcome of this basic research," Stahl says.

More recently, Stahl has been looking for the molecular switches that control traffic inside cells. Materials travel around cells encased in vesicles, which fuse with other vesicles or other cell components in order to deliver their cargo to the right spot. Vesicles, for example, carry proteins from the compartment where they are produced, called the endoplasmic reticulum, to the compartment

where they are modified, called the Golgi, and then to the cell surface to be released. A similar mechanism delivers invaders from outside the cell into lysosomes, where they are destroyed.

Stahl and a handful of other researchers around the world have uncovered several families of proteins that seem to control vesicle formation all over the cell. "It seems that as people look at fusion events around the cell, there are certain features in common with all of them. Nature is probably making certain molecules that are going to be required for all of these events," he explains.

Understanding these fundamental cell functions will have important implications for many human diseases, Stahl says. For example, several organisms, such as the invaders that cause tuberculosis and Legionnaire's disease, are successful because they prevent the series of vesicle fusions that would deliver them to lysosomes to be digested.

"These organisms get access to the cell but prevent fusion of the membrane around them with other intracellular vesicles," Stahl says. "So they have an ideal residence in which to thrive. Our goal is to understand the mechanism by which fusion occurs and then ask what this organism is producing that interferes with the normal fusion process."

Another important application of his research relates to Stahl's roots in pharmacology. "This work allows one to begin thinking about remarkable possibilities for targeting therapeutic drugs. You can think about manipulating intracellular targeting to and within cells," he says.

Stahl counts his interactions with colleagues in the lab as being one of the most enjoyable elements of his professional life. Washington University is special, he says, because "the high degree of collaboration among departments creates an atmosphere of optimism and enthusiasm about research that makes this a wonderful place to work." Ten Ph.D. students and roughly twice as many postdoctoral fellows have trained in his lab.

Over the years, administrative responsibilities have gradually encroached on the time Stahl can spend in the laboratory. He became head of the Department of Cell Biology and Physiology in 1984. Since then, he has recruited roughly a dozen faculty and expanded the diversity of research interests in the department. His interactions with fledgling faculty members have been particularly enjoyable, he says; "It's been a wonderful experience for me to be able to participate in the recruitment of all those people and watch them grow. That's exciting — a wonderful reward," he says.

Stahl says he is especially proud that his faculty members place a high priority on teaching. The department offers two courses to first-year medical students and numerous graduate courses. "Our faculty has done a superb job, and we have received several teaching awards. They find a great deal of pride and pleasure in teaching, and I think that is important," he stresses.

Stahl served as director of the Division of Biology and Biomedical Sciences from 1988 until his term expired last July. During his tenure, the division instituted several changes — among them, adding non-department head faculty to the executive council as full-time members and creating committees to look after specific issues such as admission and recruiting.

"The outcome is that the division is more effectively recruiting larger numbers of students and has enjoyed a significant amount of growth in faculty participation. I think there is a great deal of enthusiasm about the division," he says. As evidence, he points to the fact that there are as many graduate students pursuing Ph.D.s at the medical school as there are medical students. The division currently has about 300 faculty and 400 students. As one of the oldest and largest programs of its kind, it is being emulated by schools around the country, he says.

Stahl has served on many committees during the past 20 years. Among his contributions: organizing the effort in 1986 to open the medical center's day care facility with Children's Hospital. More recently, as the current chair of the committee on medical education, Stahl is helping to guide an effort to improve the educational experience. "We are trying to be innovative in terms of the kinds of methods we use for teaching so that students are enthusiastic about what they learn. We want to build the foundations for a lifetime of learning as students move through their medical education."

Stahl's work, inside the lab and out, stresses the importance he places on continually asking the fundamental questions that lead to broader and deeper understanding. As he says of scientific research, "A good question will last you a lifetime."

— Juli Leistner

Calendar

March 25–April 3



Exhibitions

First-year Master of Fine Arts Exhibition. Opening: 6-8 p.m. April 2. Exhibit continues through April 18. Pierce Arrow Bldg., 4814 Washington Ave., second floor. Hours: 10 a.m.-5 p.m., Saturdays; 2-5 p.m., Sundays. For more info., call 935-6500.

School of Fine Arts Junior Exhibit. Opening: 5-7 p.m. April 2. Exhibit continues through April 18. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4643.

School of Fine Arts Juried Student Exhibit. Through March 28. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4643.

"Perspectives: Jarvis Thurston and Mona Van Duyn." Through May 7. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Washington University Art Collections — 19th- and 20th-century European and American Artists." Through May. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Goddesses and Queens" coin exhibit. Through July 3. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.



Films

Thursday, March 25

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Chinese Film Series presents "At Middle Age" (no subtitles). Room 219 South Ridgley Hall.

Friday, March 26

7 p.m. The Gay and Lesbian Association of Student Social Workers (GLASSWALLS) presents "Desert Hearts." Room B-22 Brown Hall.

7 and 9:30 p.m. Filmboard Feature Series presents "When Harry Met Sally." (Also March 27, same times, and March 28, 7 p.m.) Room 100 Brown Hall. Cost: \$3. **For 24-hour Filmboard hotline, call 935-5983.**

Midnight. Filmboard Midnight Series presents "Monty Python — The Meaning of Life." (Also March 27, same time, and March 28, 9:30 p.m.) Room 100 Brown Hall. Cost: \$3.

Monday, March 29

7 and 9 p.m. Filmboard Classic Series presents "Bigger Than Life." (Also March 30, same times.) Room 100 Brown Hall. Cost: \$3.

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Near Eastern Film series presents "Fictitious Marriage" (English subtitles). Room 219 South Ridgley Hall.

Thursday, April 1

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Japanese Film Series presents "Woman in the Dunes" (English subtitles). Room 219 South Ridgley Hall.

Friday, April 2

7 and 9:30 p.m. Filmboard Feature Series presents "Impromptu." (Also April 3, same times, and April 4, 7 p.m.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series presents "The Gods Must Be Crazy." (Also April 3, same time, and April 4, 9:30 p.m.) Room 100 Brown Hall. Cost: \$3.



Lectures

Thursday, March 25

8 a.m. Dept. of Medicine presents the Fifth Eduardo Slatopolsky Lecture, "Membranous Glomerulonephritis: Mechanisms and Management," Richard J. Glasscock, prof. and chairman, Dept. of Internal Medicine, U. of Kentucky, Lexington. Room 6611 Wohl Hospital Bldg.

9:30 a.m. Dept. of Internal Medicine presents the Annual Carl G. Harford Visiting Professor of Infectious Diseases Lecture, "The Impact of HIV on Tuberculosis and *Vice Versa*," Jerrold J. Ellner, prof. of medicine and pathology, Case Western Reserve U.; and chief, Division of Infectious Diseases, University Hospitals of Cleveland. Malvern B. Clopton Amphitheatre, ground floor, Wohl Clinic.

Noon. Dept. of Genetics seminar, "Mutations Affecting the Stability and Function of the ftz Protein of *Drosophila*," Ian Duncan, assoc. prof., Dept. of Biology, WU School of Medicine. Room 816 McDonnell Medical Sciences Bldg.

Noon. Dept. of Molecular Biology and Pharmacology lecture, "Cell Death by Internal Proteolysis: Its Role in Lymphocyte Cytotoxicity, Programmed Cell Death and HIV Pathogenesis," Pierre Henkart, National Cancer Institute, National Institutes of Health, Bethesda, Md. The Philip Needleman Library, Room 3907 South Bldg.

Noon. Division of Biology and Biomedical Sciences Student-sponsored Seminar, "Multi-level Responses to Climate Change: Implications of Global Warming for Alpine Plants," Candi Galen, Division of Biological Sciences, U. of Missouri, Columbia. Room 322 Rebstock Hall.

Noon. Office for Women in Science and Medicine seminar, "Women in Private Practice," Kathy Garcia, internist; Michelle Kemp, allergist; and Suzanne Miller, internist. Erlanger Aud., McDonnell Medical Sciences Bldg.

4 p.m. African and Afro-American Studies, American Culture Studies, The Missouri Historical Society and The Society for the Study of African American Life and History present a lecture/slide presentation, "Kansas-Kentucky Connection: Black Kentuckians in the Promise Lands of Kansas," Angela Bates, president, Nicodemus Historical Society, Nicodemus, Kan. Library and Collections Center Aud., Missouri Historical Society, 225 S. Skinker.

4 p.m. Central Institute for the Deaf Research Seminar, "An Overview of the Development of Cochlear Traveling-wave Models From Passive Linear Hydromechanics to Nonlinear and Active Wave Amplification Within the Cochlear Partition," Julius L. Goldstein, senior research scientist, CID. Second Floor Aud., CID Clinic Research Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Russian lecture, "The Ural Chapters in Doctor Zhivago as Pasternak's Faust II," Irene Masing-Delic, prof. of Russian, Ohio State U. Room 114A Busch Hall.

4:15 p.m. Dept. of Philosophy colloquium, "Adjusting Utility for Justice: A

Consequentialist Reply to the Objections From Justice," Fred Feldman, prof. of philosophy, U. of Pittsburgh. Alumni House, 6510 Wallace Circle.

4:30 p.m. Dept. of Mathematics colloquium, "Symmetry in Several Complex Variables," Kang Tae Kim, prof., Brown U. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

4:45 p.m. University College reception and lecture, "U.S.-European Relations in the Post Cold War Period," John C. Gannon, director, Office of European Analysis, Central Intelligence Agency. Women's Bldg. Lounge.

8 p.m. Dept. of English colloquium, "Dean Donne at Paul's Feast: Preaching Unconversion to the Unconverted," Robert Wiltenburg, director of expository writing, WU. Hurst Lounge, Room 201 Duncker Hall.

Friday, March 26

9:15 a.m. Pediatric Grand Rounds, "Evaluation of Pulmonary Physiology With PET," Aaron Hamvas, asst. prof. of pediatrics, WU School of Medicine and medical director, Neonatal Intensive Care Unit, St. Louis Children's Hospital. Clopton Aud., 4950 Children's Place.

10 a.m. Dept. of Electrical Engineering and the Chemical Group of Monsanto Co. present a colloquium, "Recent Development in CCD Imaging Technology," James W. Beletic, research scientist, Georgia Tech Research Institute, Georgia Institute of Technology. Room 305 Bryan Hall.

Noon. Dept. of Cell Biology and Physiology seminar, "A Cellular Analog of Viral Binding/Fusion Proteins," Judith M. White, Dept. of Pharmacology, U. of California, San Francisco. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. Solid-state Engineering and Applied Physics seminar, "Fingerprinting of Magnetic Recording Media," Elias Glavinias, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall.

4 p.m. Dept. of Anatomy and Neurobiology seminar, "Ca²⁺-Activated K⁺ Channels in Rat Chromaffin Cells: Possible Interference About Submembrane Ca²⁺," Christopher Lingle, assoc. prof., depts. of anatomy and neurobiology and anesthesiology, WU School of Medicine. Room 928 McDonnell Medical Sciences Bldg.

4 p.m. Dept. of Earth and Planetary Sciences colloquium, "Structural and Metamorphic Evolution of Archean Migmatites, NW Quetico Subprovince of the Superior Province," Robert L. Bauer, assoc. prof., Dept. of Geological Sciences, U. of Missouri, Columbia. Room 361 Natural Sciences Bldg.

4 p.m. Dept. of Mathematics Analysis Seminar with Urban Cegrell, prof., U. of Umea, Sweden. Room 199 Cupples I Hall.

4 p.m. Dept. of Music presents composer Dan Asia, assoc. prof. of music, U. of Arizona, discussing his music. Room 8 Blewett Hall Annex.

4 p.m. Division of Hematology/Oncology seminar, "Genetic Regulation of Genomic Instability in Normal and Neoplastic Cells," Thea Tlsty, U. of North Carolina. Room 7738 Clinical Sciences Research Bldg.

4 p.m. Microbial Pathogenesis seminar, "Regulation of the Human Cellular Immune to *Mycobacterium tuberculosis*," Jerrold J. Ellner, prof. of medicine and pathology, Case Western Reserve U.; and chief, Division of Infectious Diseases, University Hospitals of Cleveland. Room 775 McDonnell Medical Sciences Bldg.

Saturday, March 27

9 a.m. Dept. of Anatomy and Neurobiology seminar, "Computational Neuroscience: An Overview," David Van Essen, prof., Dept. of Anatomy and Neurobiology, WU School of Medicine. Erlanger Aud., McDonnell Medical Sciences Bldg.

Monday, March 29

Noon. Dept. of Neurology and Neurological Surgery seminar, "PET Studies Using

Words: Aspects of Language, Attention and Short Term Memory," Steven Petersen, assoc. prof., Dept. of Neurology and Neurological Surgery, WU School of Medicine. Schwarz Aud., first floor, Maternity Bldg.

4 p.m. Dept. of Biology seminar, "From Metabolite to Metabolism to Metabolon: The Role of Organization of Macromolecules in the Krebs Cycle," Paul Srere, Dept. of Biochemistry, Veterans Affairs Medical Center, Dallas. Room 322 Rebstock Hall.

4 p.m. Dept. of Mathematics Analysis Seminar, "Bilinear Forms on the Dirichlet Type Spaces and Related Problems," Zhijian Wu, prof., U. of Alabama. Room 199 Cupples I Hall.

4 p.m. Dept. of Psychology colloquium, "The Face and Emotion," Paul Ekman, Dept. of Psychiatry, U. of California, San Francisco. Room 102 Eads Hall.

4 p.m. Graduate Program in Immunology seminar, "Class II and Stress: Some New Insights," Benjamin D. Schwartz, director, Immunology and Infectious Diseases, Monsanto Corporate Research, St. Louis. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

8 p.m. School of Architecture Monday Night Lecture Series with Edward Sekler, prof., Harvard U. Graduate School of Design. Steinberg Hall Aud. For more info., call 935-4523.

Tuesday, March 30

4 p.m. Dept. of Anthropology colloquium, "Toward Household-centered Economics: Input-output Analysis of a Native Amazonian Community," Alan W. Johnson, Dept. of Anthropology, U. of California, Los Angeles. Room 149 McMillan Hall. (Coffee: 3:30 p.m.)

Wednesday, March 31

8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds, "Modern Antibiotic Use in Ob/Gyn," Randall Howerton, chief resident, Dept. of Obstetrics and Gynecology, WU School of Medicine. Clopton Aud., 4950 Children's Place.

11 a.m. Assembly Series presents the Martin Luther King Jr. Symposium, "The Parity Imperative: Civil Rights, Economics, Justice and a New America," Julianne Malveaux, African American Studies Department, U. of California, Berkeley. Graham Chapel.

12:30 p.m. Neuroscience Luncheon Seminar, "Neural Regulation of Muscle Genes," John Merlie, prof., Dept. of Molecular Biology and Pharmacology, WU School of Medicine. Room 928 McDonnell Medical Sciences Bldg.

3 p.m. Dept. of Mathematics Analysis Seminar, "Moduli of H[∞] Functions on Ball in Cⁿ," John McCarthy, asst. prof., WU Dept. of Mathematics. Room 199 Cupples I Hall.

4 p.m. Dept. of Biochemistry and Molecular Biophysics seminar, "How Works a snRNP? Structure-function Studies of U2 snRNA in Yeast," Manny Ares, U. of California, Sinsheimer Laboratory. Cori Aud., 660 S. Euclid Ave.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Marie Doss at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-8533.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-8533.

4 p.m. Dept. of Physics colloquium, "Conformal Gravity and Newton's Law," Philip Mannheim, U. of Connecticut. Room 204 Crow Hall. (Coffee: 3:30 p.m., Room 245 Compton Hall.)

Thursday, April 1

Noon. Dept. of Molecular Biology and Pharmacology lecture, "Stimulation-induced Metabolic Changes in Hippocampal Slices," David B. McDougal Jr., prof., Dept. of Molecular Biology and Pharmacology, WU School of Medicine. The Philip Needleman Library, Room 3907 South Bldg.

Noon. Dept. of Molecular Genetics, "Involvement of Tyrosyl-tRNA Synthetase and Other Proteins in Splicing of Group I Introns," Alan Lambowitz, Dept. of Molecular Genetics, Ohio State U. Cori Aud., 660 S. Euclid Ave.

1 p.m. Division of Biology and Biomedical Sciences Student-sponsored Seminar, "The Control of Timing and Spatial Organization During Cellular Differentiation," Lucy Shapiro, prof. and chair, Dept. of Developmental Biology, Stanford U. Clopton Aud., 4950 Children's Place.

4 p.m. African and Afro-American Studies and American Culture Studies present a lecture, "Gordon Parks: From Regionalist to Man of the World," Thomas Cripps, prof. of history, Morgan State U., Baltimore. Brown Hall Lounge.

4 p.m. Central Institute for the Deaf Research Seminar, "Distortion Product Otoacoustic Emissions: New Information on Rate of Growth and Related Clinical Issues," Gerald R. Popelka, prof. and head of audiology, CID. Second Floor Aud., CID Clinic Research Bldg., 909 S. Taylor Ave.

4:15 p.m. Dept. of Philosophy colloquium, "De Facto Determinacy of Translation," John Michael Palmer, graduate student, WU. Women's Bldg. Lounge.

4:30 p.m. Dept. of Mathematics Roever Colloquium, "Dupin Hypersurfaces," Thomas E. Cecil, prof., College of the Holy Cross, Worcester, Mass. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

7:30 p.m. Committee on Comparative Literature and Dept. of Romance Languages and Literatures present a lecture, "Writing the Fourth Dimension (The European Avant-garde)," Willard Bohn, prof. of French and comparative literature, Illinois State U., Normal. Alumni House, 6510 Wallace Circle.

Friday, April 2

9:15 a.m. Dept. of Pediatrics presents the Sixth Ben Abelson Memorial Lecture, "Human Cancer Genetics," Webster K. Cavenee, director, Ludwig Institute for Cancer Research, San Diego; and prof. of medicine, U. of California, San Diego. Clopton Aud., 4950 Children's Place.

Noon. Dept. of Cell Biology and Physiology seminar, "Macropinosomes, Tubular Lysosomes and *Salmonella* in Macrophages," Joel A. Swanson, Dept. of Anatomy, Harvard Medical School. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. Dept. of Mathematics Geometry Seminar, "Applications of Lie Sphere Geometry to Submanifold Theory," Thomas E. Cecil, prof., College of the Holy Cross, Worcester, Mass. Room 199 Cupples I Hall.

1 p.m. Solid-state Engineering and Applied Physics seminar, "More on Information Theory for Magnetic Recording," Donald Porter, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall.

4 p.m. Dept. of Anatomy and Neurobiology seminar, "Representation of Tactile Roughness From Thalamus to Somatosensory Cortex," Harold Burton, prof. of neurobiology and assoc. prof. of physiology, WU School of Medicine. Room 928 McDonnell Medical Sciences Bldg.

4 p.m. Dept. of Earth and Planetary Sciences colloquium, "Earth Before Pangea," Ian Dalziel, prof., Dept. of Geological Sciences, U. of Texas, Austin. Room 361 Natural Sciences Bldg.

4 p.m. Dept. of Music lecture, "Controversy in the Biographies of Prokofiev, Tchaikovsky and Shostakovich," Malcolm Brown, prof. of musicology, Indiana U. Room 8 Blewett Hall Annex.

4 p.m. Microbial Pathogenesis Seminar, "Pathogenesis and Immunity of CNS Virus Infection — What Have Reoviruses Taught Us?" Kenneth L. Tyler, Dept. of Neurology, Medicine and Microbiology-Immunology, U. of Colorado Health Science Center. Room 775 McDonnell Medical Sciences Bldg.

6 and 8:30 p.m. WU Association Travel Lecture Series, "Bali: Life in the Balance" by Rick Ray, whose travel adventures include riding the rails in New Zealand, living in a Buddhist monastery in Thailand and backpacking through China. Graham Chapel. Cost: \$4.50 at the door. For more info., call 935-5212.



Music

Friday, March 26

7 p.m. Dept. of Music presents a lecture/concert with Roland Jordan, assoc. prof. of music, and the WU Opera, directed by John Stewart, assoc. prof. of music, and Jolly Stewart, WU teacher of applied music. (Also March 27, same time.) Sheldon Ballroom, 3648 Washington Ave. Cost: \$5.

Tuesday, March 30

8 p.m. Dept. of Music presents a recital with violinist John McGrosso and pianist Ruth Price. Steinberg Hall Aud.

Thursday, April 1

8 p.m. Dept. of Music presents a voice recital with Roland Jarquio, baritone. Graham Chapel.

Friday, April 2

4 p.m. Dept. of Music presents an "April Fool's Day" concert. Women's Bldg. Lounge.



Performances

Thursday, April 1

7 p.m. Performing Arts Dept. presents a special preview of "A Little Night Music" by Stephen Sondheim. (This preview is exclusively for Eliot Society members and their guests.) Edison Theatre. For more info., call 935-5191. (Champagne dessert reception at intermission.)

Friday, April 2

8 p.m. Performing Arts Dept. presents "A Little Night Music" by Stephen Sondheim. (Also April 3, 9 and 10, same time; April 4 and 11, 2 p.m.) Edison Theatre. Cost: \$7 for the general public; \$5 for students, senior citizens and WU faculty and staff. For more info. and reservations, call 935-6543.

Saturday, April 3

8 p.m. Stage Left presents El Teatro Campesino performing two plays: "Simply Maria" and "How Else Am I Supposed to Know I'm Still Alive." (Also April 4, same time.) Drama Studio, Room 208 Mallinckrodt Center. Cost: \$12 for the general public; \$8 for students, senior citizens and WU faculty and staff. For more info. and reservations, call 935-6543.



Miscellany

Thursday, March 25

9:30 a.m.-noon. University College presents a three-part workshop, "Career Development for Moms," Ellen Krout-Levine, coordinator of career programs, University College. (Continues through April 8.) Cost: \$50. For registration or more info., call 935-6788.

Friday, March 26

Noon. Women's Studies Program is sponsoring the Women Faculty Brown Bag Lunch. Women's Bldg. Lounge. For more info., call 935-5102.

7 p.m. Center for American Indian Studies presents "American Indian Storytelling in the Kiowa Tradition," Jake Chanate, a Kiowa storyteller. Brown Hall Lounge.

Saturday, March 27

10 a.m. Thurtene Carnival is sponsoring a pre-carnival Thurtene Throng Five-Mile Road Race. (The race will start and finish at the Bates Memorial in Forest Park.) Registration fee: \$8 before March 20; \$10 on race day. For more info. and registration forms, call 935-3108.

1 p.m. Center for American Indian Studies third annual powwow featuring American Indian dancers, trading booths, storytelling and food. Mudd Field, located north of Simon Hall.

Wednesday, March 31

8 p.m. Dept. of English presents a reading with Reginald McKnight, writer-in-residence and novelist. Hurst Lounge, Room 201 Duncker Hall.

Friday, April 2

11 a.m. Thurtene Carnival is sponsoring a "Stuff-A-Volkswagen" contest for student

Annual printmarket benefits Gallery of Art

The 10th annual Printmarket will be held 10 a.m. to 5 p.m. April 3 and noon to 5 p.m. April 4 at Washington University's Gallery of Art. This is the third year Printmarket has been hosted by the gallery.

The Printmarket is a show and sale of fine art prints from leading regional and national print dealers. Proceeds from Printmarket benefit the Gallery of Art. Last year the proceeds went to purchase two works — a print by Spanish artist Eduardo Chillida, titled "Aiza Tu III," and a limited edition artist's book by American artist Christopher Wool, titled "Black Book."

This year, 19 dealers from the United States will display a wide range of old and modern master prints, posters, Japanese woodblock prints, Australian and aboriginal prints, photographs, western travel and Missouri items, antiquarian maps, American historical prints, botanical and architectural prints, among others.

"What I like best is that you can see a broad range of styles and media all in one place," says Joe Ketner, gallery director. "We couldn't be more pleased about hosting this very special event as it celebrates its 10-year anniversary in St. Louis."

organizations. Outside Umrath Hall's Umrathskellar. For info., call 721-7198.

Noon. The Woman's Club of WU mini-luncheon and program, "Join the Kids on the Block!" presented by Margaret Israel. Women's Bldg. Lounge. Cost: \$5 for members and guests. Reservation deadline is March 30. For more info. and reservations, call Annette Kimelman at 991-1261 or Jan Kardos at 863-0523.

7:30 p.m. Libraries' Bookmark Society presents a panel discussion, "The Art of Autobiography." Panelists are: Wayne Fields, dean, University College; Elaine Viets, columnist, St. Louis Post-Dispatch; and Elizabeth Gentry Sayad, public relations professional. Women's Bldg. Lounge. For more info., call 935-5400.

Saturday, April 3

10 a.m.-5 p.m. Printmarket benefit for WU Gallery of Art with art prints for sale. (Also April 4, noon-5 p.m.) Gallery of Art, upper gallery, Steinberg Hall. Cost: \$5 for the general public, \$2 for students. For more info., call 935-4523.

A benefit cocktail party and preview will open the Printmarket from 7 to 10 p.m. April 2. Admission to the preview, which is open to the public, is \$50. For reservations, call 361-3737.

Printmarket café will be open from noon to 2 p.m. April 3 and 4. Sandwiches, drinks and sweets will be available for purchase.

Admission to Printmarket is \$5 for the general public and \$2 for students. Children under 12 are admitted free. For more information, call 935-4523.

McDonnell — from page 1

McDonnell, who died in 1980, was one of the nation's leading advocates and supporters of the United Nations. He stressed that "peace must be waged from a foundation of strength." His company was one of the first in the world to celebrate United Nations Day, Oct. 24, as a paid holiday.

McDonnell was born in 1899 in Denver, Colo., and reared in Arkansas. After graduating from Princeton University in 1921 with honors in physics, he received a master's degree in aeronautical engineering from the Massachusetts Institute of Technology.

Sports

Baseball

Last Week: Washington 9, Chicago 1; University of Wisconsin-Oshkosh 10, Washington 2, Illinois Wesleyan 2-2, Washington 0-8

This Week: Westminster College, 2 p.m. Tuesday, March 23, Fulton, Mo.; Upper Iowa University, 2 p.m. Wednesday, March 24, Kelly Field; St. Louis University, 3 p.m. Friday, March 26, Kelly Field; St. Olaf College (doubleheader), noon Saturday, March 27, Kelly Field; Simpson College, 2 p.m. Sunday, March 28, Kelly Field.

Current Record: 7-6

After finishing 3-3 at the University Athletic Association (UAA) Tournament in Florida, the Bears returned home for games with the nation's top-ranked team, University of Wisconsin-Oshkosh, and regional power Illinois Wesleyan University.

Men and Women's Track and Field

Last Meet: Washington University Open (non-scoring)

This Week: Washington University Invitational, 3 p.m. Friday, March 26, Bushyhead Track and Francis Field.

The Bears hosted a 15-team, non-scoring open meet last Saturday. Senior Scott Rassbach, Faribault, Minn., posted Washington's only win on the men's side with a 33:48.7 showing in the 10,000-meter run. Freshman Julie Pearman,

Desloge, Mo., was the sole winner on the women's side, thanks to a 1:09.4 outing in the 400-meter hurdles. Pearman's performance places her second on the Bears' all-time leaderboard for that event.

Women's Tennis

Last Week: Washington 9, Webster 0

This Week: Southwest Missouri State University, 10 a.m. Saturday, March 27, Tao Tennis Center.

Current Record: 1-2

The Bears won all nine matches against Webster in straight-sets, yielding just 24 games in 18 sets. Junior Stacy Leeds, Muskogee, Okla., back with the team after lettering with the NCAA-qualifying Bear basketball squad, took the fifth-singles win to run her varsity record to 6-0.

Men's Tennis

Last Week: Emory Invitational (non-scoring)

This Week: Idle

Current Record: 1-5

The Bears joined five of the top 11 teams in the NCAA Division III fall rankings for a non-scoring tournament at Emory University. Junior Rich Berens, Chesterfield, Mo., fell 7-5, 6-3 in the finals of the first-singles flight to the number-one player in the Division III ranks. He advanced to the finals of the first-doubles flight with his partner senior Scott Wolf, St. Louis. They were forced to retire in the second set.

Observations *From the Provost*

The Record has invited Provost Edward S. Macias, Ph.D., to write an occasional column about University opportunities and challenges. The provost's column serves as a forum to address, explain and discuss a variety of topics related to the University or higher education in general.



Undergraduate teaching has been discussed widely on our campus this semester. Recently Student Life carried a number of articles, opinion pieces and editorials about teaching. Such highlighting is good, for it is through analysis and criticism that we learn to do better. Since I am charged with the responsibility of serving as chief academic officer, I would like to add my views.

It is important to set teaching in the context of this institution. Washington University is a community dedicated to learning — learning by students and learning by faculty. Learning and teaching are at the core of our enterprise. We all learn from one another in classrooms, labs, studios, libraries, residence halls and playing fields — in fact in all parts of the University. The curiosity, ingenuity, and persistence of scholars and of students drive this process.

Those scholars who are themselves engaged in continual learning and in expanding human knowledge and understanding are the best teachers and the best role models for students who are selected for Washington University. Much of what is known today will seem dated tomorrow; therefore, in the modern world, each of us must constantly learn.

I have several more specific comments:

Teaching is central at Washington University.

Washington University was a teaching institution long before research was added to our mission. Teaching remains a dominant activity of Hilltop faculty. A major reason for faculty involvement in scholarly work, research and creative efforts is to add depth and vitality to teaching.

Our University is committed to teaching.

That commitment begins with faculty. Everywhere one finds faculty who care about the art and craft of teaching. They work hard to develop teaching materials and course outlines and to prepare for their classes.

Schools and departments take teaching seriously. Each has an individual or committee responsible for the undergraduate curriculum. Teaching is evaluated by faculty as well as by students. Curricula are reviewed, and appropriate changes are made.

The quality of teaching is weighted heavily in the tenure review process. This begins with a peer evaluation of evidence of significant contributions to Washington University in all areas of teaching and scholarship. This evaluation is conducted by the appropriate faculty with input from students. Excellence in teaching and in scholarly and creative endeavors is expected in the awarding of tenure.

Over the past decade the administration has appointed three different committees to consider how we may improve different aspects of the teaching and learning process. A number of helpful recommendations have come from these groups. Actions taken recently, some of which were recommended by one or more of these committees, are listed in the points below:

- In 1991 a Teaching Center was established under the leadership of Professor Robert McDowell to help faculty improve their teaching. The center organizes workshops to improve teaching, consults with individual faculty, works with teaching assistants, and maintains close contact with the many groups on campus directly involved in teaching and learning.
- With the help of a grant from the Kemper Foundation, the Teaching Center provides support for faculty to introduce improvements in undergraduate courses.
- Excellent teaching is recognized with awards from students, faculties and alumni. These include the Burlington Northern Awards, a number of student organization awards and Founders Day awards.
- A classroom renovation fund has been in place for the past five years, and it has contributed \$2,500,000 to improve classrooms. In addition, there will be five new classrooms next year for general use.
- Progress has been made in improving the services in support of teaching and learning such as libraries, language laboratories, and computers.
- Currently Dean James E. McLeod is working with faculty members and students in Arts and Sciences to improve academic advising for first-year students.
- Professor Burton M. Wheeler is leading a task force of students, faculty and staff focusing on improving the undergraduate experience.

Research plays an important role in teaching.

Having faculty move from the laboratory, studio, or research project to the classroom brings cutting-edge knowledge and methods of inquiry to the student. Many students join in research. The result is an educational process that fosters learning at the edge of what is known. This is part of what makes a Washington University education vital and exciting.

Everything we do, including teaching, can be improved.

We recognize that teaching is difficult. It is not perfect here or anywhere. There is continual debate even about what constitutes excellent teaching. Some of the challenges worthy of our attention are: (1) continued discussions of what constitutes an excellent Washington University education; (2) development of better methods of evaluating the effectiveness of teaching; (3) innovation in the ways we teach, including new technologies and techniques; and (4) continued improvement of classrooms, laboratories, libraries, studios and access to computers.

While there is always room for improvement, I believe that teaching at Washington University is done very well. Employers, graduate and professional schools seek our students. Surveys tell us alumni are pleased with their education. I honestly believe that there is no better place for a bright and able student to expand his or her understanding and vision and form a base for a life of continuous learning.

All ideas for improving teaching and learning are welcome.



Josefina Lopez's autobiographical play "Simply Maria," to be presented April 3 and 4, is a series of vignettes. In those vignettes, Lopez explores some of her hopes and fears. These "witch-demons" personify the author's fear of growing up. "Simply Maria" is one of two plays to be performed by El Teatro Campesino in Mallinckrodt Center's Drama Studio, Room 208.

'Stage Left' presents two plays about and by Hispanic women

Two plays by the legendary El Teatro Campesino will be performed at 8 p.m. April 3 and 4 in the Drama Studio, Room 208 Mallinckrodt Center. The plays, both of which are by and about women, are titled "Simply Maria" and "How Else Am I Supposed to Know I'm Still Alive?"

"Simply Maria," written by Josefina Lopez, is about a young Hispanic girl trying to resolve the conflicts between her traditional Mexican roots and the opportunities of the U.S. culture in which she now lives. Lopez, who is 24, wrote the largely autobiographical play when she was 17.

The author was born in San Luis Potosi, Mexico, and moved with her family to Los Angeles at age five. For almost 13 years they lived illegally in East Los Angeles until they obtained "amnesty." Her play raises complex issues with a refreshing honesty and poignancy, in a sophisticated yet lucid recognition of the universal struggle and exuberance of growing up Latina in a patriarchal culture.

"How Else Am I Supposed To Know I'm Still Alive?" by Evelina Fernandez, is a buddy play about two Chicano women friends in a mid-life crisis. In the play, 50-year-old Nellie, a childless woman, is preparing for a visit from one of her boyfriends when her friend Angie

arrives. Angie, who is 48 and has nine grandchildren, reveals that she is pregnant and plans to have an abortion. The two women soon discover that Angie's Romeo is the very man Nellie has had her eye on. The play combines hilarious dialogue and comic wit in a story of true friendship.

Fernandez, who says she wrote the play from listening to her mother and aunts interacting in their kitchens, began writing because of her frustration with roles available to Latinas.

"They always had us as maids, hookers, undocumented workers," she said in a Denver Post interview. "I said, 'Wait a minute, we are all those things, but we are other things, too.' Most of all we're human beings ... we have dreams; we are intelligent; we feel, and we're never portrayed that way."

El Teatro Campesino was founded by artistic director Luis Valdez during the grape strike of 1965. Originally founded as an artistic vehicle for migrant farmworkers, the company still is based in San Juan Bautista, Calif., yet it also has broadened its vision to include urban, rural and culturally diverse audiences.

The event is presented by Edison Theatre's "Stage Left" series. Tickets are \$12 for the general public, with discounts for senior citizens and students. For more information, call 935-6543.

'Love madness' portrayed in musical

"A Little Night Music," a musical by Stephen Sondheim, will be performed by Washington University's Performing Arts Department at 8 p.m. April 2, 3, 9 and 10 and at 2 p.m. April 4 and 11 in Edison Theatre.

In addition, there is a special preview for members of the University's Eliot Society and their guests at 7 p.m. Thursday, April 1. There will be a special champagne dessert reception at intermission. This is the fifth in a series of special theatre events for Eliot Society members.

The musical, the first one the University has presented in six years, is inspired by Swedish filmmaker Ingmar Bergman's romantic comedy, "Smiles of a Summer Night."

Director Jeffery Matthews, artist in residence in the Performing Arts Department, says the show is "quite delicious." The show is "lyrical, melancholy and silly all at the same time," he adds.

The show's thematic dance is the waltz, which Matthews describes as "the most sexy dance because when people twirl and whirl the only thing they can keep their eyes on is the eyes of their partner."

The story is based on several love triangles. Middle-aged Frederick, played by junior Michael Holmes, is married to 18-

year-old Anne, played by freshman Jennifer Chu. After 11 months of marriage, the union has not been consummated, and Frederick falls back in love with an old flame, Desiree, played by sophomore Caren Schmulen. Desiree, meanwhile, is already the mistress of the Count, played by sophomore Mark Adams. The Count's wife, played by junior Devorah Rosner, knows of this affair and flirts with Frederick. Frederick's son, played by sophomore Jamon Heller, falls in love with his father's wife, Anne, though he is having a fling with the maid.

The story takes place during the summer solstice, when the sun doesn't set for 24 hours. This solstice heightens the "love madness," as Matthews calls it, which is observed with great disdain by Desiree's aged mother, who used to be a high-priced "escort." That role is played by junior Michelle Shapiro.

The set designer is Bruce Bergner, resident set designer. The costume designer is Devon Painter, and music coordinator is Leona Greenlaw, a professional music director and a graduate student in drama.

Tickets are \$7 for the general public; \$5 for senior citizens, Washington University faculty and staff, and students.

For more information, call 935-6543.

For The Record

For The Record contains news about a wide variety of faculty, student and staff scholarly and professional activities.

Of note

A scientific poster presentation by **Giuseppe Aliperti**, M.D., assistant professor of medicine, **Michael D. Darcy**, M.D., assistant professor of radiology, and **Jeffrey Hallett**, M.D., fellow in gastroenterology, won the First Place Achievement Award in the Scientific Exhibit and Poster competition's gastroenterology section. The competition was held during the Southern Medical Association's 86th Annual Scientific Assembly in San Antonio, Texas. ...

Mark Bates, senior director of development for the School of Law, has been elected to the Citizens' Scholarship Foundation of America's advisory trustee board. The foundation is a Minneapolis-based organization that raises funds for college scholarships through 1,000 chapters nationwide. Last year the organization raised approximately \$20 million for some 13,000 need-based scholarships. ...

Allan D. Callow, M.D., Ph.D., research professor of surgery, received a \$19,743 grant from the International Society for Applied Vascular Biology to convene a conference titled "Applied Vascular Biology." ...

William J. Catalona, M.D., professor of urological surgery, received a Specialized Programs of Research Excellence (SPORE) feasibility grant from the National Cancer Institute. The newly created grants are designed to promote research that will accelerate the clinical application of laboratory findings. Catalona's three-year grant

will provide \$75,000 yearly toward the study of prostate cancer, the second leading cause of cancer deaths for men. ...

Kevin A. Roth, M.D., Ph.D., assistant professor of molecular biology and pharmacology and of pathology, received a \$146,896 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for a research project on "Tachykinins: Gastrointestinal Gene Regulation."

Speaking of

Christine A. Feely, Ph.D., assistant professor, **Paul Groszewski**, instructor, and **Mary K. Seaton**, instructor, all in occupational therapy, gave a presentation titled "Biomechanical Demands of a Repetitive Task Performed by Poultry Processors" at the American Society of Hand Therapists' annual conference held in Phoenix, Ariz. Also during the conference, **Laura A. Loeding**, clinical instructor in occupational therapy, delivered a presentation titled "The Effects of Silicone Gel on Scar Tissue in Hand Injuries." ...

During a meeting of the Wednesday Club held in Ladue, **Herbert E. Metz**, professor emeritus of English and performing arts, lectured on "The Social and Religious Significance of Tennessee Williams' 'The Glass Menagerie.'" ...

Robert P. Morgan, Ph.D., Elvera and William Stuckenberg Professor of Technology and Human Affairs, presented two talks during the "Waste Management '93" conference held in Tucson, Ariz. His talks were titled "Bioremediation: Status and Prospects for Hazardous Waste Cleanup" and "Options for Citizen Participation and Independent Technical Oversight for St.

Louis Hazardous Waste Sites." The latter paper was mentioned prominently in a recent article published in The Riverfront Times. ...

William Van Watson, Ph.D., lecturer in performing arts, is scheduled to present a paper in April during the American Association of Italian Studies Conference to be held in Austin, Texas. The title of his paper will be "Baroque Painting, Gay Activism and MTV: The Caravaggesque Im-segni Through Derek Jarman to R.E.M.'s 'Losing My Religion.'" ...

On Assignment

Ronald M. Levin, J.D., associate dean and professor of law, was appointed one of three reporters for the Special Committee on Congressional Process, a study commission recently created by the American Bar Association's Section of Administrative Law and Regulatory Practice. The committee will focus on the non-legislative functions of Congress. Levin will prepare a report on whether Congress' attempts to influence administrative proceedings should be limited.

To Press

James K. Bashkin, Ph.D., assistant professor of chemistry, co-authored an article

titled "Direct Coupling of Aniline and Nitrosobenzene: A New Example of Nucleophilic Aromatic Substitution for Hydrogen." The article was published in the Journal of the American Chemistry Society. ...

Etc.

Gary W. Kronk, manager of personal computer support services, discovered an ancient appearance of periodic comet Swift-Tuttle. The ancient appearance came in 188 A.D. and Kronk's finding allowed Brian Marsden, an astronomer at the Harvard-Smithsonian Center for Astrophysics, to extend his research on the comet's orbital motion by more than 1,500 years. Details of Kronk's discovery will be included in Marsden's scientific paper scheduled for publication in the Icarus journal later this year.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity to *For The Record*, c/o Carolyn Sanford, Campus Box 1070. Items must not exceed 75 words. For information, call Carolyn Sanford at 935-5293.

Professor Barbara Ann Salert dies at 44

Barbara Ann Salert, Ph.D., associate professor of political science, died March 9 at her home in University City after a long illness. She was 44.

Salert, who joined the University in 1973, was known for her research on civil violence and political unrest. Her numerous publications include the books *The Dynamics of Riots* (1980) and *Revolutions and Revolutionaries: Four Theories* (1976).

Salert participated in numerous professional activities. She served on the editorial boards of such prestigious journals as the American Political Science Review and the American Journal of Political Science. Salert also was a member of the American Political Science Association and the Midwest Political Science Association, where she was an executive council member.

Salert also was an active member of the University community. She served on many committees, including the Faculty Council, the Board of Freshman Advisors and the Committee on Honorary Degrees. She additionally served as a graduate adviser in political science.

Salert, who was born in New York, earned her bachelor's degree in 1969 from Barnard College. She then attended Indiana University, where she earned her master's degree and her doctorate, both in political science, in 1971 and 1975, respectively.

A memorial service was held March 13 at St. Michael and St. George Episcopal Church in Clayton. Salert donated her body to the Washington University School of Medicine.

Among the survivors are her father, Irving Salert, of Hollywood, Fla., and a sister, Susan Siler of Scarsdale, N.Y.

Memorial contributions may be made to the following: Save the Children Federation, 54 Wilton Road, Westport, Conn. 06880-3108; Amnesty International, 322 Eighth Ave., New York, N.Y. 10001-4895; Leader Dogs for the Blind, 1039 Rochester Road, Rochester, Mich. 48307; National Hemlock Society, P.O. Box 11830, Eugene, Ore. 97440-3900; or to the National Hospice Organization, 1901 N. Fort Myer Drive, Suite 307, Arlington, Va. 22209-1607.

Memorial service scheduled in chapel for retired professor Lindsay Helmholtz

Lindsay Helmholtz, Ph.D., professor emeritus of chemistry, died of Parkinson's Disease on March 17 at the Bethesda Nursing Home in St. Louis. He was 83.

A native of Chicago, Helmholtz attended Cornell University from 1926-28 and in 1933 received his doctorate from Johns Hopkins University. A specialist in molecular structure, Helmholtz was a National Research Fellow from 1934-36. He was awarded a Guggenheim Fellowship in 1946. He also received grants from NASA.



Lindsay Helmholtz

Helmholtz joined the Washington University faculty in 1946 as an assistant professor of chemistry. He became associate professor in 1948 and professor in 1957. He served as acting chair of the Department of Chemistry from 1963-64 and 1976-78. He retired in 1978. Before coming to Washington, he was a chemist for the Manhattan Project at Los Alamos, N.M.

A memorial service has been scheduled for 4 p.m. on March 25 in Graham Chapel.

Among the survivors are his wife, Alice Bean Helmholtz of St. Louis; a son, Richard Helmholtz of Chicago; a daughter, Amelia Helmholtz Williams of Madison, Wis.; and two grandchildren, Suzy and Anne Tegen of Madison.

Memorial contributions may be made to the Washington University College of Arts and Sciences or to Planned Parenthood.

Students help others during Spring Break

A group of Washington University students took the opportunity during Spring Break to help individuals less fortunate than themselves.

The students participated in humanity projects organized in Mexico, Nebraska,

South Dakota and West Virginia. The Campus Y and Student Union sponsored the projects.

"What our students gained personally from the intercultural experience in each community was equal to what they gave in service to those communities," said Helen Davis, executive director of the Campus Y.

As part of the humanitarian projects, eight Washington students traveled to Parkersburg, W.Va., to work with Habitat for Humanity. The students built the second story of a home for a woman and her three children. "It was a wonderful experience to go and see what eight students can do in five days and to help another person achieve a more stable living situation," said sophomore Julie L. Westerhold. "We learned that there weren't limits on what we could do when we were taught the proper skills."

Another group of students helped renovate a dormitory for children living on a reservation in Pine Ridge, S.D. The 16 students played with the children, who, according to the Sioux YMCA staff, are unwanted by their families.

Students also helped paint a day-care center in Tijuana, Mexico — the same center that they helped build last year. While in Tijuana, they cleaned up a large garbage dump at the center and prepared a garden site in its place as well. They also helped clean up a flood site and build another community center.

The students who visited a Chicano cultural awareness center in Omaha, Neb., spent time with children living in the community.

News In Brief

Autobiographical writing focus of panel discussion

Wayne Fields, Ph.D., dean of University College and professor of English, will participate in a panel discussion on autobiographical writing at 7:30 p.m. April 2 in the Women's Building Lounge. The event is free and open to the public.

Other panelists will be Elaine Viets, a columnist with the St. Louis Post-Dispatch, and Elizabeth Gentry Sayad, a public relations consultant and civic leader. Robert E. Wiltenburg, Ph.D., assistant dean of the College of Arts and Sciences, director of expository writing and adjunct instructor of English, will serve as moderator.

Fields is the author of such acclaimed writings as *What the River Knows: An Angler in Midstream* (1990), and *The Past Leads a Life of Its Own* (1992). His latest work, scheduled for publication in 1993, discusses the rhetoric of American presidents.

Viets has written three books: *Urban Affairs*, *Images of St. Louis* and *The Viets Guide to Sex, Travel and Anything Else That Will Sell This Book*.

Sayad published a collection of essays titled *A Scarlet Thread: Collected Writings on Culture and the Arts* (1991).

The event is sponsored by the Washington University Libraries' Bookmark Society. For more information, call 935-5400.

International Office seeks volunteers for two programs

Volunteers are being sought to participate in two programs sponsored by the International Office.

The Host Family Program is designed to promote cultural exchange between international students and local families. As part of the program, volunteers invite students to share in family celebrations, as well as sports or cultural events, at least once a month. Volunteers may be from single or multigenerational households. Host families do not provide living accommodations for the students.

The Speak English With Us Program, co-sponsored by the International Office and the Women's Society, matches community volunteers with international students, faculty and researchers from both the Hilltop and Medical campuses who want to improve their understanding of the English language and culture. Volunteers meet with participants once a week at a mutually convenient location.

For more information, call the International Office at 935-5910.

Opportunities & personnel news

Hilltop Campus

The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brookings Hall, or by calling 935-5990.

Receptionist/Secretary

930142. *Career Center*. Requirements: High school graduate. This position is the focal point of the Career Center, thus, a positive, cheerful and courteous disposition is required; must be a "people" person, team player, flexible, and detail-oriented; able to set priorities and work on numerous tasks with constant interruption; some college education and computer experience required; typing 35 wpm with accuracy; applicant should possess a working knowledge of University procedures plus general office experience. Clerical tests and three letters of recommendation required.

Project Manager

930143. *Facilities Planning and Management*. Requirements: College degree in engineering/construction/architecture; minimum five years project-management experience in both design and construction; ability to read and interpret plans and specifications; capable of working with and motivating design professionals and contractors; ability to organize time and priorities to be most productive; self-motivated, responsible and mature individual; good communication skills a necessity; must possess a good working knowledge of the design and construction industry to assess quality of the work being performed; ability to make judgments on acceptability, proper means and methods of design and construction. Resume and three letters of recommendation required.

Secretary - Lewis Center

930152. *School of Fine Arts*. Requirements: High school graduate, some college preferred; typing 50 wpm with accuracy; accurate word processing; familiarity with WordPerfect 5.1; excellent language and grammar skills; knowledge of office machines, including personal computers; good communication skills; excellent filing and recordkeeping; ability to work well with students, faculty and staff; dependability and flexibility a must; willingness to work under pressure; ability to handle details and to prioritize tasks; minimum one year prior office experience; familiarity with University procedures preferred. Clerical tests and three letters of recommendation required.

Department Secretary

930154. *Alumni and Development Programs*. Requirements: High school graduate, bachelor's degree preferred; strong command of the English language; ability to deal with multiple priorities with minimal supervision. Overtime, including nights, weekends, etc. is essential, as is a good personality and good grooming. Clerical tests and three letters of recommendation required.

Manager for Mail Operations

930155. *Undergraduate Admission*. Requirements: Minimum four years of college, bachelor's degree preferred; physically capable of lifting/transporting heavy boxes (up to 50 lbs.); knowledge of U.S. postal regulations preferred; time management and ability to prioritize; attention to detail and recordkeeping skills a must; ability to be flexible and manage changing priorities; ability to delegate; supervisory skills. Application and three letters of recommendation required.

Library Assistant

930157. *School of Business*. Requirements: Two years of college, bachelor's degree preferred; attention to detail; ability to interact well with library users; ability to explain and interpret library policies; ability to work independently with minimal supervision; typing 35 wpm with accuracy.

Clerical tests and three letters of recommendation required.

Benefits Accounting Clerk III

930158. *Accounting Services*. Requirements: High school graduate; one year benefits accounting experience; six semester hours of accounting and at least six semester hours of additional accounting and/or business-related courses; or three years experience equivalent to an Accounting Clerk II at Washington University, plus three semester hours of accounting, with payroll experience; typing 35 wpm with accuracy. Clerical tests and three letters of recommendation required.

Systems Manager

930161. *Biology*. Requirements: Bachelor's degree, preferably in computer science. Will be administrator of department computing facility. Extensive knowledge in VAX/VMS and UNIX systems management and programming required; strong experience with Ethernet, Decnet, and Apple Talk networking; expertise in relational data base systems; experience supporting Macintosh and PC systems; good interpersonal and organizational skills; ability to prioritize and function effectively with minimal supervision; familiarity with academic work environment highly desirable. Resume and three letters of recommendation required.

Coordinator

930162. *Alumni and Development Programs*. Requirements: Bachelor's degree; excellent oral communications and interpersonal skills; self-motivated with attention to detail; ability to pleasantly overcome objections and be effectively persuasive with prospects and University staff; able to deal with multiple priorities with minimal supervision; knowledge of University systems and personnel would be helpful; minimum of five years experience in university or high-level service industry or business setting; familiarity with word processing techniques; ability to analyze, condense confidential information on major prospects and provide concise documentation; typing 50 wpm preferred. Clerical tests and three letters of recommendation required.

Editorial Assistant

930164. *Anthropology*. Requirements: Bachelor's degree, preferably in anthropology or with courses in anthropology; editorial and office management experience also essential. The editorial assistant also should be computer literate enough to use Windows software, like word processing and spread sheets, fluently. The editorial assistant should be familiar with facsimile machines and photocopiers; typing with accuracy required. Clerical tests and three letters of recommendation required.

Medical Sciences Writer

930167. *Medical Public Affairs*. Requirements: Bachelor's degree, master's degree preferred; five years experience in news media or public relations fields; ability to plan, organize and implement a regular program of searching out and developing medical- and science-related materials for national news initiative. Resume and three letters of recommendation required.

Operation Clerk I - Part-time

930168. *Information Systems*. Requirements: High school graduate; good physical health (able to safely handle a loaded two-wheel dolly up and down stairs); able to work required extra hours, weekends and shift changes; scheduled work week will be Tuesday through Saturday. Application and three letters of recommendation required.

Technical Service Specialist

930169. *Campus Stores*. Requirements: High school graduate, two years of college preferred; capable of providing technical support and sales consultation for computer hardware, software and peripheral sales to University departments; must be capable of installing systems and software, maintaining

and servicing equipment, inventory control of service areas and sales; must be able to support a broad array of equipment. Resume and three letters of recommendation required.

Medical News Writer

930171. *Medical Public Affairs*. Requirements: Bachelor's degree; some professional experience as a news writer, knowledge of media operations and requirements. Resume and three letters of recommendation required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resume to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Postdoctoral Fellow

920296-R. *Anatomy*. Requirements: U.S. citizenship; must have a Ph.D. or M.D. with less than three years USPHS training time. Should have a knowledge of biochemistry and cell biology theory and techniques; prefer applicant with extensive graduation experience. Will be a postdoctoral fellow on a Training Grant.

Medical Research Technician

920551-R. *Psychiatry*. Requirements: Bachelor's degree in biology or chemistry with two to three years experience with electrophoresis techniques, autoradiography, bacteriological techniques, radioisotopes or DNA sequencing.

Medical Research Technician

920995-R. *Pediatrics*. Requirements: Bachelor's degree with a minimum of one year experience in molecular biology. Will be coordinating and performing the technical activities of a clinical molecular diagnostic laboratory.

King symposium offers new programs — from page 1

Other symposium events include a talent show featuring performances by University students; an exhibit titled "Blacks in Science"; a forum on "The State of Civil Rights in America"; a tribute to black men; a seminar on prejudice within the black community; and a spiritual commemoration honoring King's contributions to the civil rights movement.

"We've attempted to do a few things differently this year with the symposium," said Washington. "We are continuing our traditional programs of the talent show, a keynote speaker and the formal, but we've included many new programs that we hope will bring a new flavor to the week."

The symposium begins at 7 p.m. Sunday, March 28, with the talent show, which will be held in The Gargoyle. On Monday, March 29, the "Blacks in Science" exhibit, sponsored by the student chapter of The National Society of Black Engineers, will be on display from 11 a.m. to 1 p.m. outside The Gargoyle.

Billie Mayo, co-founder of Self-Evaluation Consultants Inc. in St. Louis, will speak on prejudice within the black community during a Workforce 2000 Seminar to be held at 7 p.m. on Tuesday, March 30, in the lounge (ground floor) of Wydown Hall.

At 7 p.m. March 31, a forum titled "The State of Civil Rights in America" will be held in Friedman Lounge, which is located on the main level of Wohl Center. Symposium organizers are co-sponsoring the forum with the Peace on Earth student group as part of Peace Week, which will be

Medical Transcriptionist

930552-R. *Psychiatry*. Requirements: High school graduate/equivalent, some business or technical knowledge preferred; experience with WordPerfect; typing 70 wpm; knowledge of medical terminology.

Medical Secretary I

930573-R. *Otolaryngology*. Schedule: Part time, 22.5 hours a week — usually Tuesday, Wednesday and Thursday, with up to five days as a float. Requirements: High school graduate/equivalent; prior experience in a medical setting dealing with the public; good communication and telephone skills; experience with WordPerfect; typing 60 wpm; knowledge of medical terminology and medical transcription.

Planning Associate

930584-R. *General Administration*. Requirements: Bachelor's degree, master's degree in health or business administration preferred; minimum of one to two years experience in planning and marketing and/or experience in health care field preferred; knowledge of PC and WordPerfect.

Medical Research Technician

930616-R. *Psychiatry*. Requirements: Bachelor's degree; should have theoretical knowledge of all aspects of molecular biology; prefer individual with practical experience of PCR and DNA sequencing.

Professional Rater I

930640-R. *Allergy and Immunology*. Schedule: Full-time with some evenings and weekends. Requirements: Minimum of two years of college-related coursework and three to five years experience of bachelor's degree with one to three years experience. Individual hired will be interviewing and performing standardized psychological tests and recruiting patients for clinical studies; must have a desire to work with children.

Data Assistant

930641-R. *Allergy and Immunology*. Schedule: Part-time, 15 hours a week — 6:30-9:30 p.m., some weekends. Requirements: Minimum of two years college-related coursework with three to five years experience or bachelor's degree with one to three years experience; should have experience in telephone interviewing and interacting with participants in clinical studies or allergies.

held March 29-April 3 at the University.

A forum titled "Speak Out!" will be held at 7 p.m. Thursday, April 1, in the multipurpose room (ground floor) of Wydown Hall. During the forum, Asian, black, Latino and other minority students will voice their concerns and exchange information with each other and with University administrators. "A Tribute to Black Men," featuring poetry readings and music, will begin at 7:30 p.m. on Friday, April 2, in the multipurpose room as well. The tribute is open to members of the University community only.

On Saturday, April 3, the ABS spring formal will begin at 7 p.m. in the museum cafe of the Saint Louis Art Museum in Forest Park. Tickets for the event, which is open to the Washington community only, are \$20. Tickets are on sale through March 26 from 11 a.m. to 1 p.m. in Mallinckrodt Center and from 5 to 7 p.m. in Wohl Center. For more information, call Rachel E. Goldsmith at 935-2641.

A spiritual commemoration in honor of King will be held at 2 p.m. Sunday, April 4, in Graham Chapel. The Rev. Ronald B. Packnett, pastor of the Central Baptist Church and an adjunct instructor in the African and Afro-American Studies Program, will speak on the symposium's theme.

In addition to ABS, the symposium is sponsored by the Assembly Series, Student Educational Service and Student Union.

For more information on Malveaux's lecture, call 935-4620. For more information on the symposium, call 935-5994.